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Docket No. 4339/43581 (CON)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant: Galligan, et al.
Serial No.: 10/810,195
Date Filed: March 25, 2004
Title: CATALYST MEMBERS HAVING ELECTRIC ARC SPRAYED SUBSTRATES
AND METHOD OF MAKING THE SAME
Art Unit:
Examiner:

May 17, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:

Serial No.: 09/293,216
Filing Date: April 16, 1999

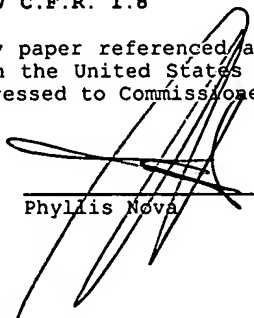
Serial No.: 09/071,663
Filing Date: May 1, 1998

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the date shown below with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: May 17, 2004



Phyllis Nova

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- (a) ☐ Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- (b) ☐ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".
- ©) ☐ Abstracts by recognized library services.

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

- (a) ☒ Within 3 months of the filing date or date of entry into the National Stage.
- (b) ☐ Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 05-1070 for consideration of this Statement.
- ©) ☐ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance (37 C.F.R. 1.97(c)).
 - (1) ☐ The required certification is given below, or
 - (2) ☐ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
 - (3) ☐ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 05-1070.
- (d) ☐ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.
 - (1) ☐ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or

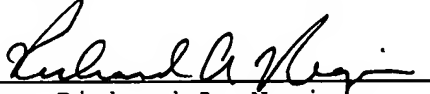
- (2) _____ Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 05-1070.

4. Certification (if applicable)

- (a) _____ The undersigned hereby certifies that each item of information contained in a communication from a foreign patent office was cited by the foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
- (b) _____ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 05-1070.

Respectfully Submitted,

By 
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO. 4339/4358I (CON)

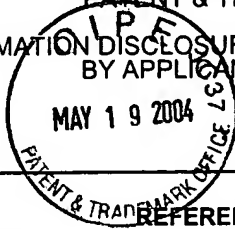
SERIAL NO. 10/810,195

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

APPLICANT: Galligan, et al.

FILING DATE: March 25, 2004

GROUP:



REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date If Appropriate
	4,318,894*	03/09/1982	Hensel, et al.	423/212	
	4,530,418*	07/23/1985	Currie	181/227	
	4,920,746*	05/01/1990	Gebellus	60/299	
	4,985,388*	01/15/1991	Whittenberger	502/439	
	5,151,254*	09/29/1992	Aral, et al.	422/180	
	3,925,259*	12/09/1975	Kane	252/470	
	5,384,200*	01/24/1995	Giles, et al.	428/552	
	5,466,651*	11/14/1995	Pfefferle	502/304	
	5,721,188*	02/24/98	Sung, et al.	502/439	
	4,455,281*	06/1984	Ishida, et al.	422/171	
	5,569,455*	10/1996	Fukul, et al.	422/174	
	4,927,353*	05/1990	Nomura, et al.	431/215	
	5,419,121*	05/1995	Sung, et al.	423/212	
	6,294,141*	09/2001	Twigg, et al.	423/213.7	
	5,516,494*	5/1996	Domesle, et al.	427/243	
	5,466,651*	11/14/95	Pfefferle	502/304	
	5,481,084*	01/02/96	Patrick, et al.	219/123	
	5,987,882*	11/23/99	Voss, et al.	60/274	
	5,204,302*	04/20/93	Gorynin, et al.	502/2	
	5,208,203*	05/04/93	Horiuchi, et al.	502/302	
	5,597,771*	01/28/97	Hu, et al.	502/304	
	5,735,158*	04/07/98	Brunson	72/196	
	3,111,396*	11/19/1963	Ball	25/156	
	3,540,878*	11/17/1970	Levine, et al.	75/5	
	3,667,985*	06/06/1972	Levine, et al.	117/22	
	4,027,367*	06/07/1977	Rondeau	428/652	
	4,094,644*	06/13/1978	Wagner	23/288	
	4,414,023*	11/08/1983	Aggen	75/124	
	4,451,441*	05/24/1984	Ernest, et al.	423/213.2	
	4,515,758*	05/07/1985	Domesle, et al.	423/213.2	
	4,617,289*	10/14/1986	Salto, et al.	502/339	

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 4339/4358I (CON)	SERIAL NO. 10/810,195
	APPLICANT: Galligan, et al.	
	FILING DATE: March 25, 2004	GROUP:



	4,671,931*	06/09/1987	Herchenroeder, et al.	420/445	
	4,752,599*	06/21/1988	Nakamura, et al.	502/257	
	4,969,329*	11/13/1990	Bolton, et al.	60/288	
	5,075,274*	12/24/1991	Kiyohide, et al.	502/303	
	5,108,977*	04/28/1992	Yoshida, et al.	502/304	
	5,170,624*	12/15/1992	Cornellson, et al.	60/300	

*references previously submitted in related 09/293,216 and 09/071,663

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
	WO 97/07327*	27.02.1997	PCT	F01N 3/28, 3/20		X
	2 527 684*	02.12.1983	France	F01N 3/08, 7/08		X
	WO 99/56853*	11.11.1999	PCT	B01D 47/00		
	EP 0 831 211 A1*	25.03.1998	EPO	F01N 3/24		
	GB 1,014,498*	31.12.1965	Great Britain	F01N 3/035		
	GB 2,188,559 A*	07.10.1987	Great Britain	B01D 53/36		
	EP 0 639 702 A1*	22.02.1995	EPO	F01N 3/28		
	WO 98/15354*	16.04.1998	PCT	B01J 35/04		
	162311*	07.01.1991	Taiwan	F01N 3/00	X	
	GB 413,744*	26.07.1934	Great Britain	B01D 53/94H		

*references previously submitted in related 09/293,216 and 09/071,663

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	Nakatsuji, et al., "Highly Durable NOx Reduction System and Catalysts for NOx Storage Reduction System", Society of Automotive Engineers, Inc., SAE Paper No. 980932, pp. 129-134, 1988*
	Kisenyi, et al., "Correlation between Dynamometer and Vehicle-Aged Catalysts for Automotive Lean-Burn Applications", Society of Automotive Engineers, Inc., SAE Paper No. 980934, pp. 145-152, 1988*
	Hawley's Condensed Chemical Dictionary, 13th Edition, 1997, p. 512*
	American Heritage Dictionary, 22 nd College Edition, 1982, pp. 620, 811, 1055*
	E. Luccini, et al.; "Preparation of zirconia-ceria powders by coprecipitation of a mixed zirconium carbonate in water with urea"; Int. J. of Materials and Product Technology, vol. 4, no. 2, 1989, pp. 167-175*
	M. Mitchell, Ampomat Porous Materials, Series 200, Astro Met, Inc., April 1998*
	Opticat Marketing Brochure "Wire Mesh Catalyst Carrier"

* Did not receive any FOR or NPL.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT MAY 19 2004 PATENT & TRADEMARK OFF.	ATTY DOCKET NO. 4339/4358I (CON)	SERIAL NO. 10/810,195
	APPLICANT: Galligan, et al.	
	FILING DATE: March 25, 2004	GROUP:

	A. Jatkar, "A New Catalyst Support Structure for Automotive Catalytic Converters", SAE Paper No. 971032, International Congress & Exposition, Detroit, Michigan, February 24-27, 1997, pp. 149-186*
	A.N. Pestryakov, "Catalysts Based on Foam Metals", Materials and Ecology, Journal of Advanced Materials, 1994, 1(5), pp. 471-476*
	Palke, D.R., et al, "Durable Catalytic Aftertreatment of Motorcycle Exhaust", SAE Paper No. 962473, Symposium on International Automotive Technology 1996, pp. 2029-2036*
	Reck, et al., "Metallic Substrates and Hot Tubes for Catalytic Converters in Passenger Cars, Two-and Three-Wheelers", SAE Paper No. 962473, December 1996, Abstract only*

*references previously submitted in related 09/293,216 and 09/071,663

Examiner	Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)